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**SEARCH REQUEST FORM** Scientific and Technical Information Center - EIC2800  
Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date 11/10/04 Serial # 10/617,487 Priority Application Date \_\_\_\_\_  
Your Name M. Harris Examiner # \_\_\_\_\_  
AU 2822 Phone 272-1838 Room 5A30  
In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search, please prioritize in order of need.

*Need before 11/24*

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: \_\_\_\_\_

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. \_\_\_\_\_

What types of references would you like? Please checkmark:

Primary Refs \_\_\_\_\_ Nonpatent Literature \_\_\_\_\_ Other \_\_\_\_\_  
Secondary Refs \_\_\_\_\_ Foreign Patents \_\_\_\_\_  
Teaching Refs \_\_\_\_\_

What is the topic, such as the **novelty**, motivation, utility, or other specific facets defining the desired **focus** of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

*Claims 1-10*

*Problem: See paragraphs 1-12*  
*Solution: " " " 13 attached*

Staff Use Only

Searcher: Scott Harris  
Searcher Phone: 2-2663

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 12/26/04

Date Completed: 12/29/04

Searcher Prep/Rev Time: 240

Online Time: 16

Type of Search

Structure (#) \_\_\_\_\_

Bibliographic ☒

Litigation \_\_\_\_\_

Fulltext \_\_\_\_\_

Patent Family \_\_\_\_\_

Other \_\_\_\_\_

Vendors

STN \_\_\_\_\_

Dialog ☒

Questel/Orbit \_\_\_\_\_

Lexis-Nexis \_\_\_\_\_

WWW/Internet \_\_\_\_\_

Other \_\_\_\_\_

**File 348:EUROPEAN PATENTS** 1978-2004/Nov W02

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**File 349:PCT FULLTEXT** 1979-2002/UB=20041125,UT=20041118

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Set	Items	Description
S1	36	SUPER(W) (JUNCTION? OR TRENCH?) OR SUPERJUNCTION? OR SUPERTRENCH? OR SJ(W) (REGION? OR AREA?)
S2	1808	REDUC?(W) SURFACE(W) FIELD? ? OR RESURF? OR RSURF?
S3	8	(S1 AND S2) OR SJLDMOS? ? OR SJLDDMOS? ? OR SJLDMOST? ? OR SJLDDMOS? OR SJRLD?????
S4	433	LATERAL?(W) DOUBL??? (W) DIFFUS???? OR LDDMOS? OR LDMOS OR LD-MOST? ? OR LDD (2N) MOSFET? ?
S5	8	S1 AND S2 AND S3
S6	938314	WELL OR WELLS
S7	424925	PILLAR? ? OR COLUMN? OR POST? ?
S8	317101	DOSE? ? OR DOSAGE? ? OR DOSING OR FLUENCE OR CM(2W)2 OR CM2 OR (CONC OR CONCENTRAT? OR AMOUNT? ?) (2N) (DOPANT? ? OR IMPUR-IT? OR IMPREGNAT? OR ADDITIVE? ? OR IMPLANT?)
S9	46222	1012? OR 10E12? OR 10E12? OR 1011? OR 10E11? OR 10E11?
S10	7	S5 AND S6:S9
S11	7	IDPAT (sorted in duplicate/non-duplicate order)
<b>S12</b>	<b>7</b>	<b>IDPAT (primary/non-duplicate records only)</b>
S13	1	AU=(SALAMA, C? OR SALAMA C?)
S14	0	AU=(NASSIF, S? OR NASSIF S?)
S15	0	AU=(NASSIF, K? OR NASSIF K?)
S16	7	AU=(SALAMA, A? OR SALAMA A?)
S17	0	AU=(SALAMA, T? OR SALAMA T?)
S18	7	S13:S16 AND (S1:S2 OR S4 OR S6:S9)
S19	7	IDPAT (sorted in duplicate/non-duplicate order)
S20	7	IDPAT (primary/non-duplicate records only)

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 (c) 2004 Institution of Electrical Engineers  
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 (c) 1999 Electric Power Research Inst.Inc  
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 (c) 2004 Royal Soc Chemistry  
 File 315: **ChemEng & Biotec Abs 1970-2004/Jul**  
 (c) 2004 DECHEMA  
 File 34: **SciSearch(R) Cited Ref Sci 1990-2004/Oct W4**  
 (c) 2004 Inst for Sci Info  
 File 434: **SciSearch(R) Cited Ref Sci 1974-1989/Dec**  
 (c) 1998 Inst for Sci Info  
 File 987: **TULSA (Petroleum Abs) 1965-2004/Aug W1**  
 (c) 2004 The University of Tulsa

Set	Items	Description
S1	3291	LATERAL?(W) DOUBL??? (W) DIFFUS???? OR LDDMOS? OR LDMOS OR LD-MOST? ? OR LDD (2N) MOSFET? ?
S2	296	SUPER(W) (JUNCTION? OR TRENCH?) OR SUPERJUNCTION? OR SUPERTRENCH? OR SJ(W) (REGION? OR AREA?)
S3	23	S1(2N)S2 OR SJLDMOS? ? OR SJLDDMOS? ? OR SJLDMOST? ? OR SJLDDMOS? OR SJRLD?????
S4	5138054	WELL OR WELLS
S5	1473527	PILLAR? ? OR COLUMN? OR POST? ?
S6	2031509	DOSE? ? OR DOSAGE? ? OR DOSING OR FLUENCE OR CM(2W)2 OR CM2 OR (CONC OR CONCENTRAT? OR AMOUNT? ?) (2N) (DOPANT? ? OR IMPUR-IT? OR IMPREGNAT? OR ADDITIVE? ? OR IMPLANT?)
S7	7057	REDUC?(W) SURFACE(W) FIELD? ? OR RESURF? OR RSURF?
S8	12151	1012? OR 10E12? OR 10E12? OR 1011? OR 10E11? OR 10E11?
S9	55	S7 AND S2
S10	23	S7 AND S2 AND S1
S11	11	RD (unique items)
S12	7	S11 NOT PY>2003

File 350:**Derwent WPIX** 1963-2004/UD,UM &UP=200476  
 (c) 2004 Thomson Derwent  
 File 344:**Chinese Patents** Abs Aug 1985-2004/May  
 (c) 2004 European Patent Office  
 File 347:**JAPIO** Nov 1976-2004/Jul(Updated 041102)  
 (c) 2004 JPO & JAPIO  
 File 371:**French Patents** 1961-2002/BOPI 200209  
 (c) 2002 INPI. All rts. reserv.  
 File 383:**Ei EnCompassPat(TM)** (Ontap)  
 (c) 2001 Engineering Info, Inc.

Set	Items	Description
S1	70	SUPER(W) (JUNCTION? OR TRENCH?) OR SUPERJUNCTION? OR SUPERT- RENCH? OR SJ(W) (REGION? OR AREA?)
S2	853	REDUC?(W) SURFACE(W) FIELD? ? OR RESURF? OR RSURF?
S3	2	S1(2N)S2 OR SJLDMOS? ? OR SJLDDMOS? ? OR SJLDMOST? ? OR SJ- LDDMOS? OR SJRLD?????
S4	661	LATERAL?(W) DOUBL??? (W) DIFFUS???? OR LDDMOS? OR LDMOS OR LD- MOST? ? OR LDD (2N) MOSFET? ?
S5	2	S1 AND S2 AND S3
S6	490921	WELL OR WELLS
S7	446425	PILLAR? ? OR COLUMN? OR POST? ?
S8	318106	DOSE? ? OR DOSAGE? ? OR DOSING OR FLUENCE OR CM(2W)2 OR CM2 OR (CONC OR CONCENTRAT? OR AMOUNT? ?) (2N) (DOPANT? ? OR IMPUR- IT? OR IMPREGNAT? OR ADDITIVE? ? OR IMPLANT?)
S9	17049	1012? OR 10E12? OR 10E12? OR 1011? OR 10E11? OR 10E11?
S10	2	((S1 AND S2) OR S3) AND S6:S9